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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,710	07/27/2001	Juliana Arifin	70001967-1	8241

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EXAMINER

CHACKO DAVIS, DABORAH

ART UNIT

PAPER NUMBER

1756

DATE MAILED: 04/23/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/916,710	ARIFIN ET AL.
	Examiner	Art Unit
	Daborah Chacko-Davis	1756

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 27 July 2001.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-34 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-34 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-34, are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent No. 5,001,038 (Dorinski et al).

Dorinski, in col 1, lines 6-9, in col 3, lines 4-7, in col 5, lines 36-68, in col 6, lines 1-14, and lines 41-57, discloses a process for forming a patterned structure photolithographically comprising a first pattern portion and a second pattern portion (see figures 5A, 5B, and 6) on a resist coated substrate wherein a tangent to the substrate surface at a first position (first pattern) (top face) extends parallel to a first plane (or coincides), and a tangent to the substrate at a second position (second pattern) (bottom face) extends parallel to a second plane (or coincides), such that the tangents at the first plane and the second plane do not coincide, wherein the first position and the second position are connected by a sloping face (the sloping face is also exposed during exposure processes), the method comprises a first exposure to form a first pattern, wherein the image is focused in a first focal plane, and a second exposure to form a second pattern, wherein the image is focused in a second focal plane, different from the first focal

plane, followed by a development of the photoresist, and the formation of the conductors in the printed circuit substrate with projections (by the removal of material not covered by resist) to form the defined printed circuit conductor pattern produced by the photolithographic process (claims 1, 3, 4, 8, 10-14, 19-20, 22-25, and 32-34). Dorinski, in col 5, lines 36-60, and in figures 4A, and 4B, discloses that the first focal plane and the second focal plane are parallel (claims 2, 9, and 21). Dorinski, in col 5, lines 61-68, and in col 6, lines 1-14, and in figure 6, discloses that the first and second pattern portions overlap each other partially (claims 5, 15, and 27-28). Dorinski, in col 5, lines 65-67, and in col 6, lines 1-6, discloses that the first and second exposures are performed subsequently (claims 6, 16, and 29). Dorinski, in col 3, lines 21-29, and in figure 2, discloses that the distance between the focal planes can be at least 150 μ (claims 7, 17, and 30). Dorinski, in col 5, lines 65-67, and in col 6, lines 1-14, discloses that different masks (references 502, and 504) are used to expose the first pattern and second pattern portions and further relief portions (further pattern) (claims 18, and 31). Dorinski, in col 3, lines 4-20, and in figure 2, discloses a further focal plane (reference 212) between the first focal plane and the second focal plane (claim 26).

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daborah Chacko-Davis whose telephone number is (703) 306-5923. If the examiner is unavailable, you may contact her

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supervisor, Mark F. Huff at (703) 308-2464. FAX communications should be sent to the appropriate FAX number; (703) 872-9311 for After Final Responses only or (703) 872-9310 for all other responses. FAXES received after 4:00 P.M. will not be processed until the following business day.

dcg
MP

April 16, 2003.



MARK F. HUFF
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700